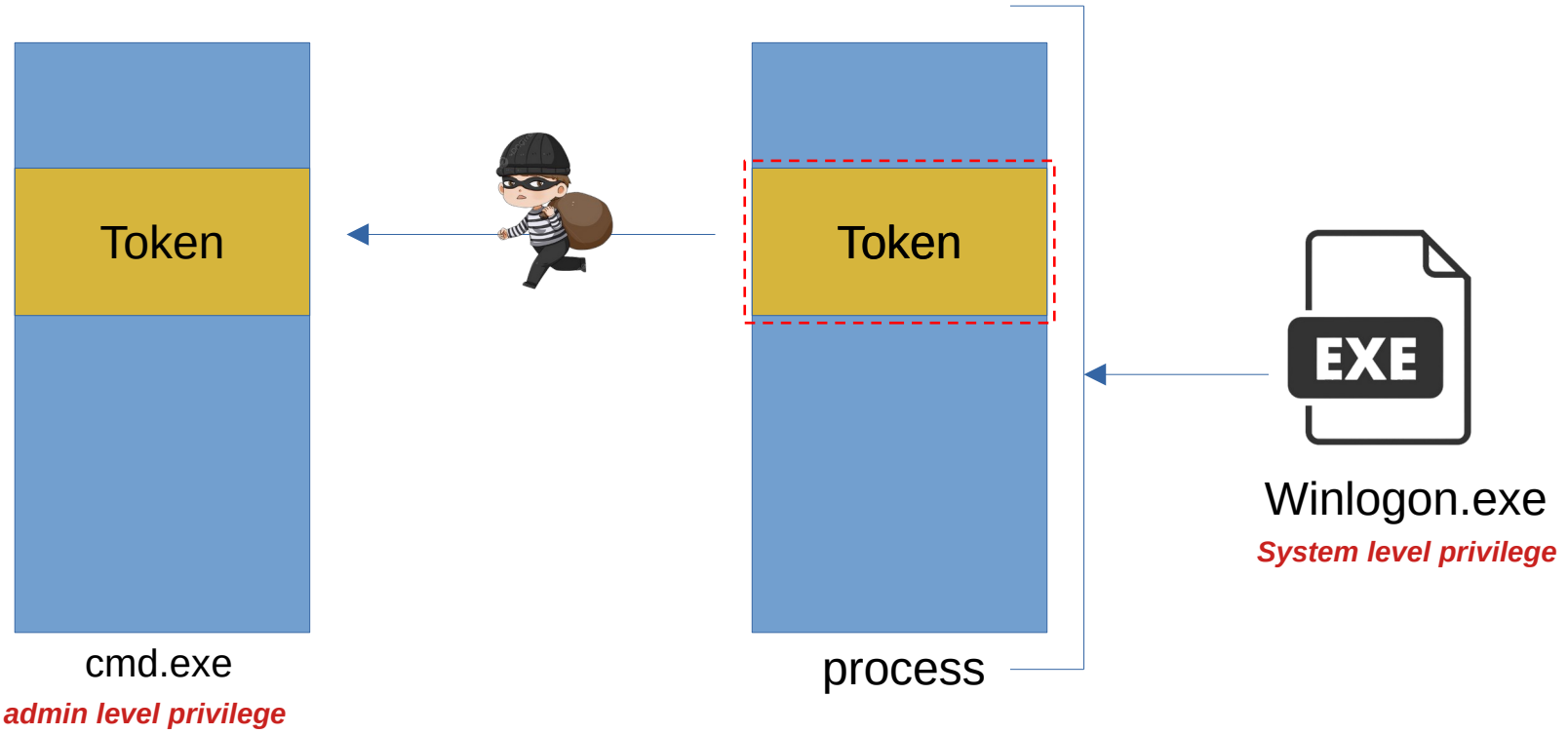
Privilege escalation

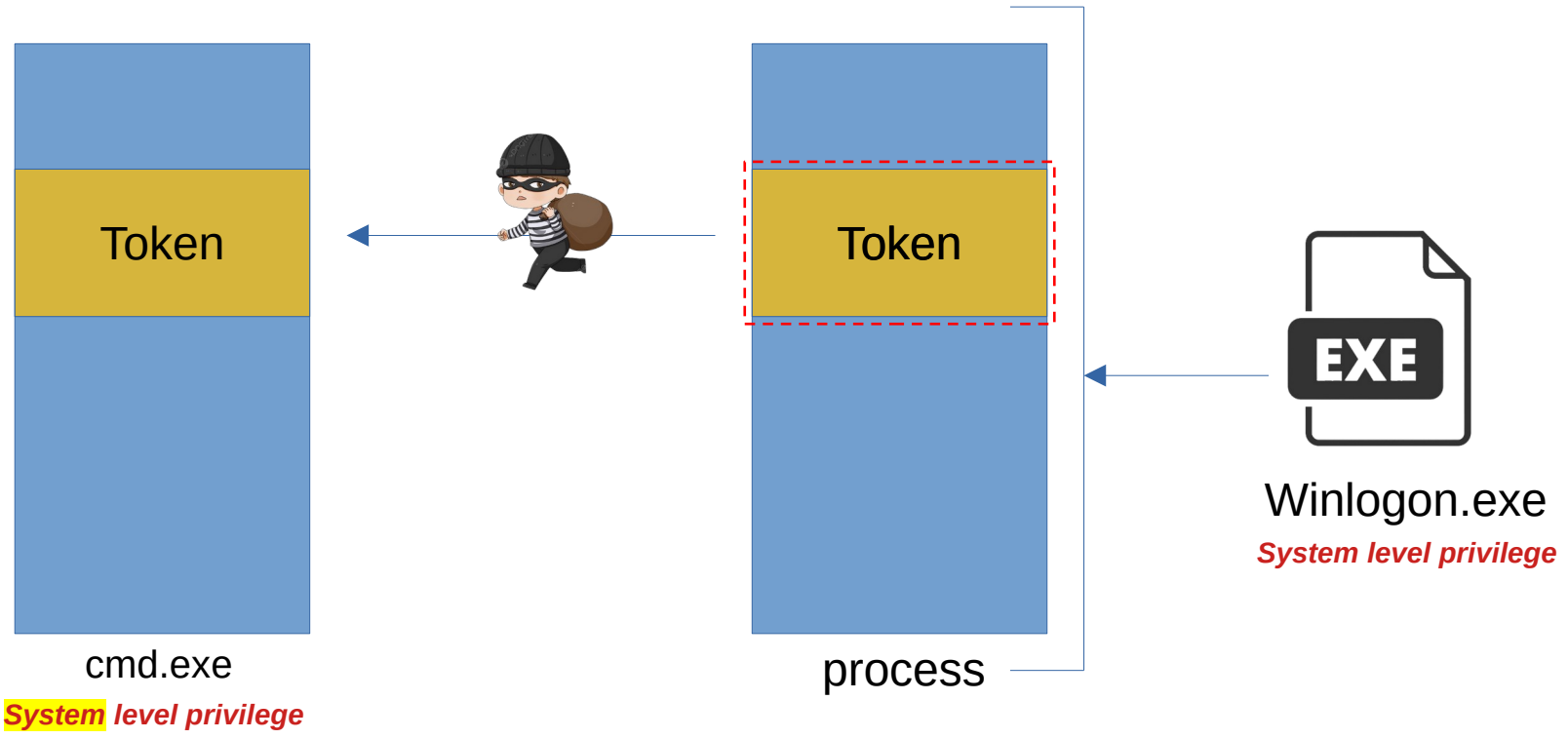
Privilege escalation is the process of gaining higher access rights or permissions on a system than were originally granted.

Token theft

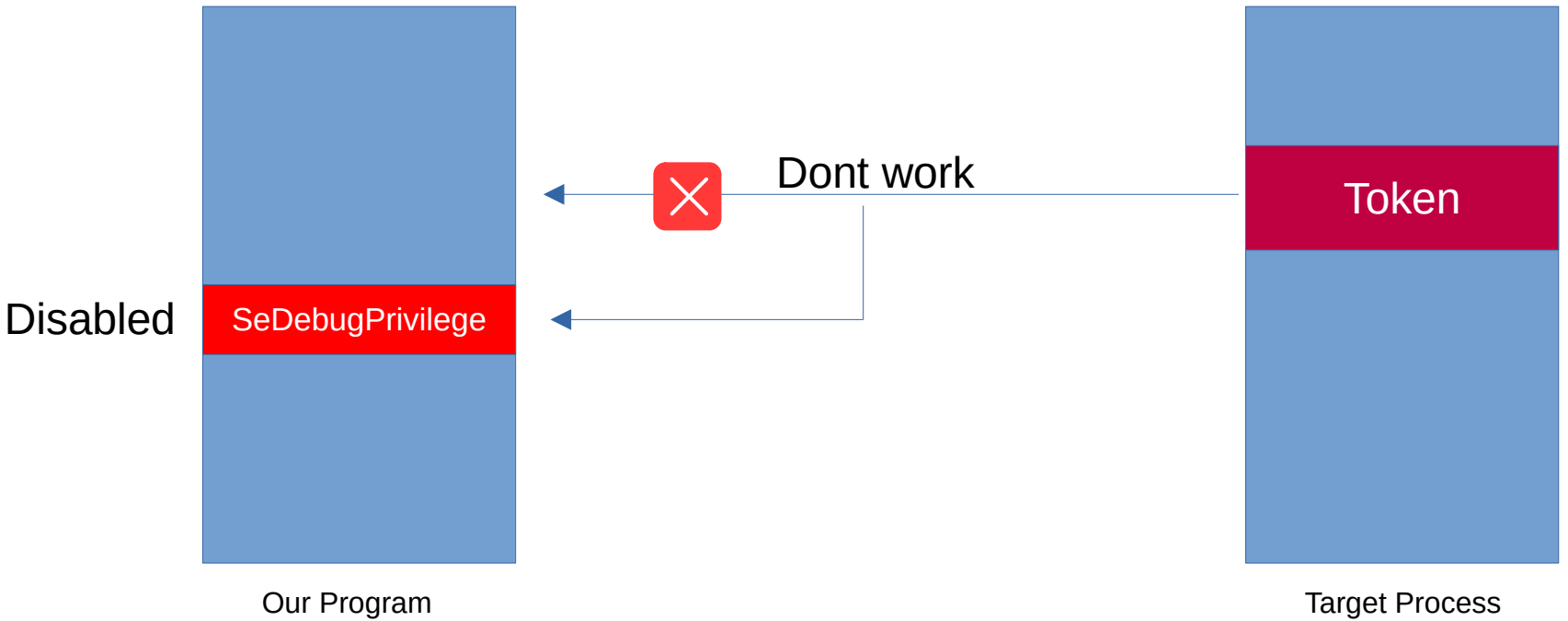
Token theft


Token
Token
EXE
cmd.exe
admin level privilege
process
Winlogon.exe
System level privilege

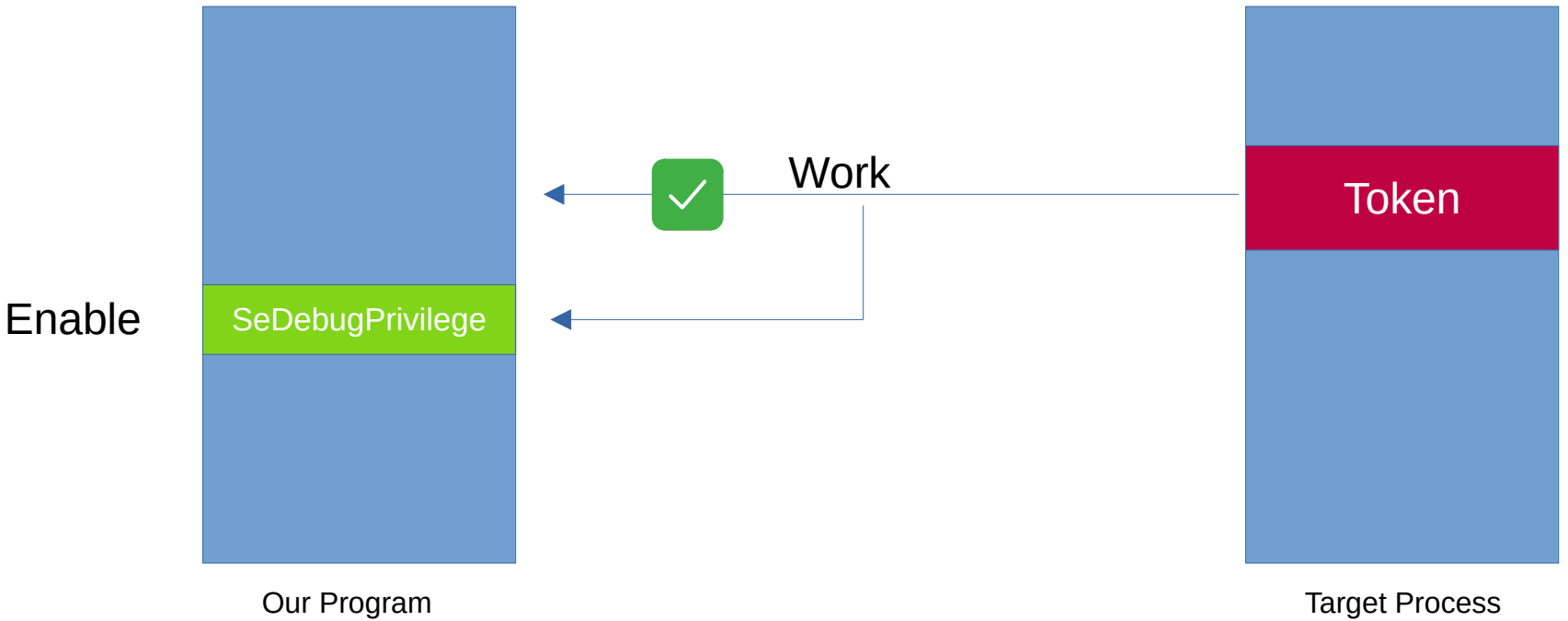
Token theft


Token
Token
EXE
cmd.exe
System level privilege
process
Winlogon.exe
System level privilege

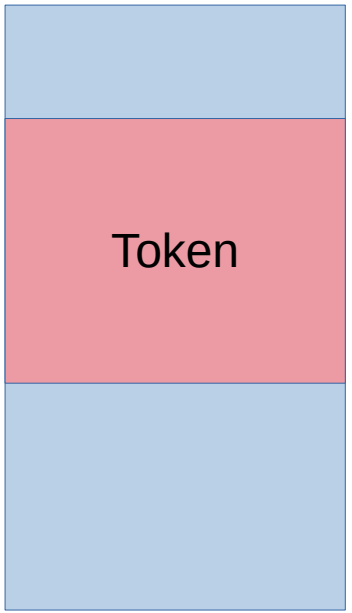
Stealing token



Stealing token



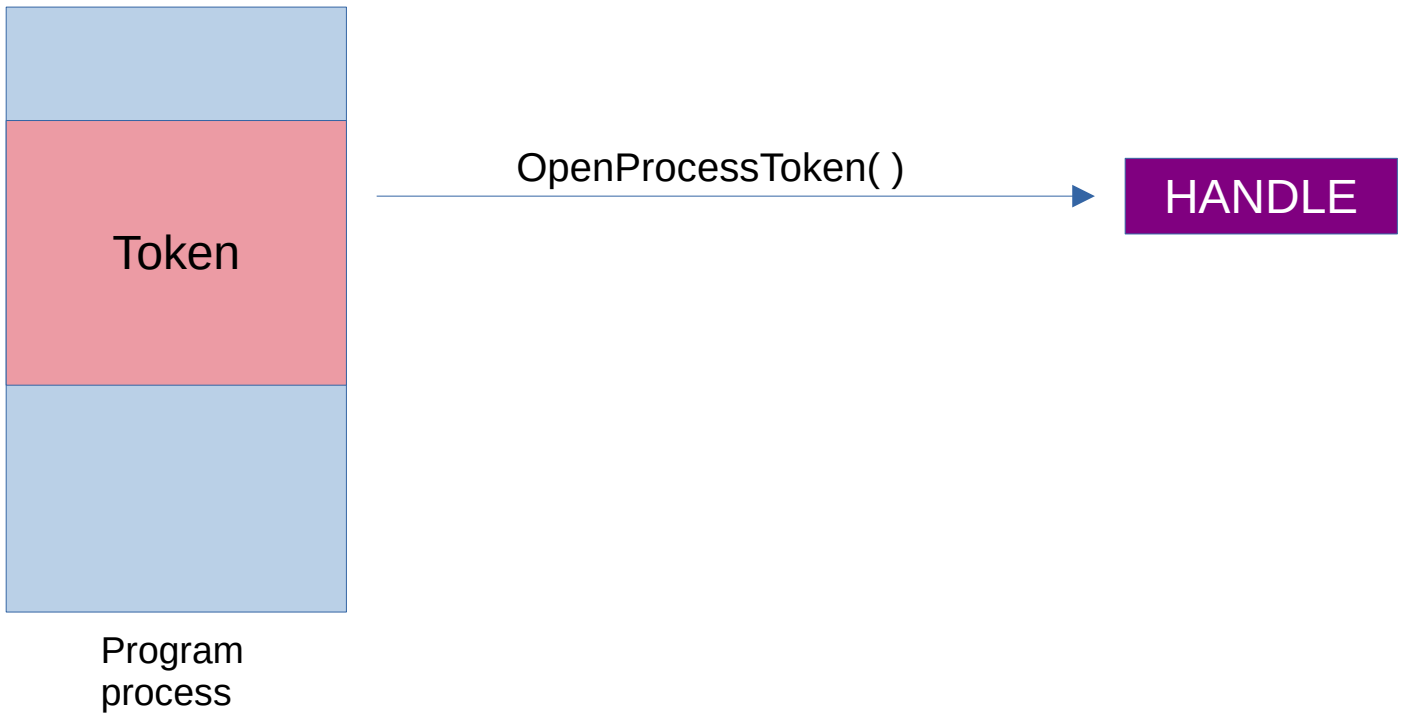
Enable “SeDebugPrivilege”



Program process

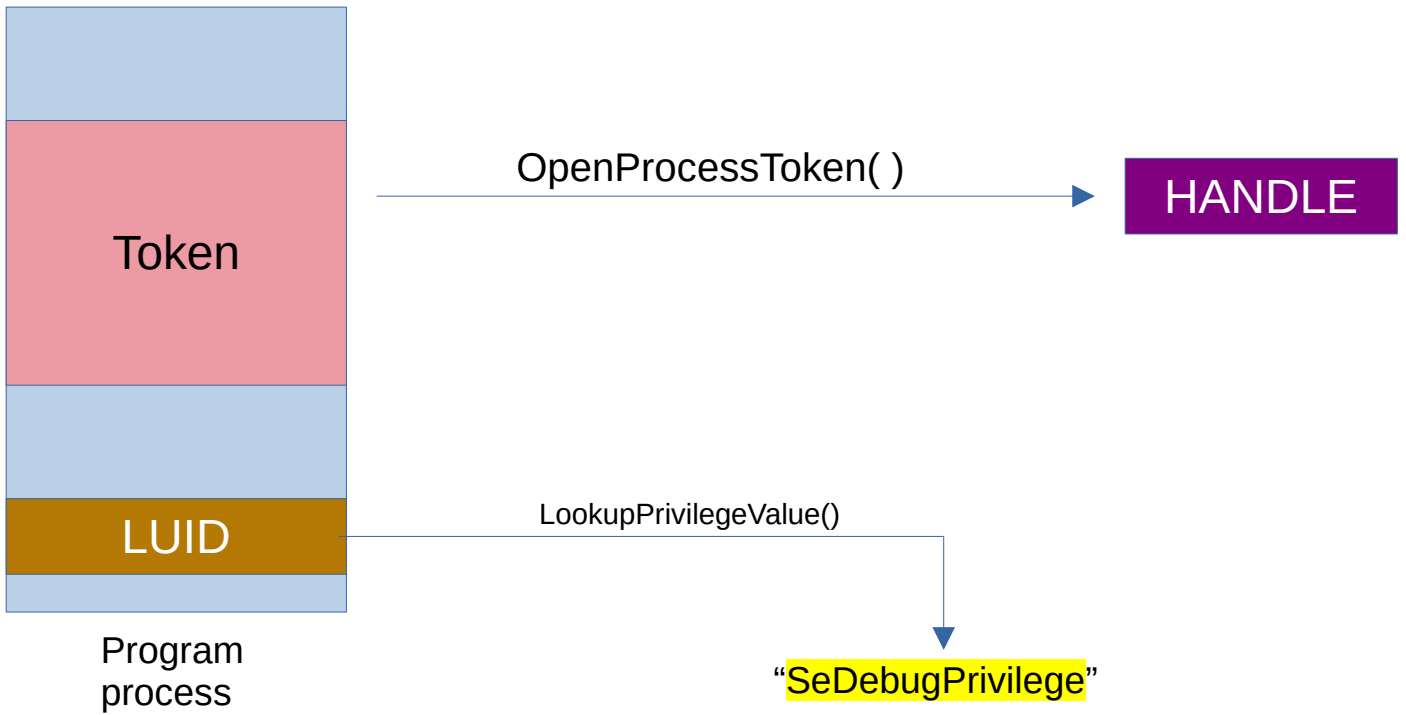
Enable “SeDebugPrivilege”

Step 1: Get the token handle of our program



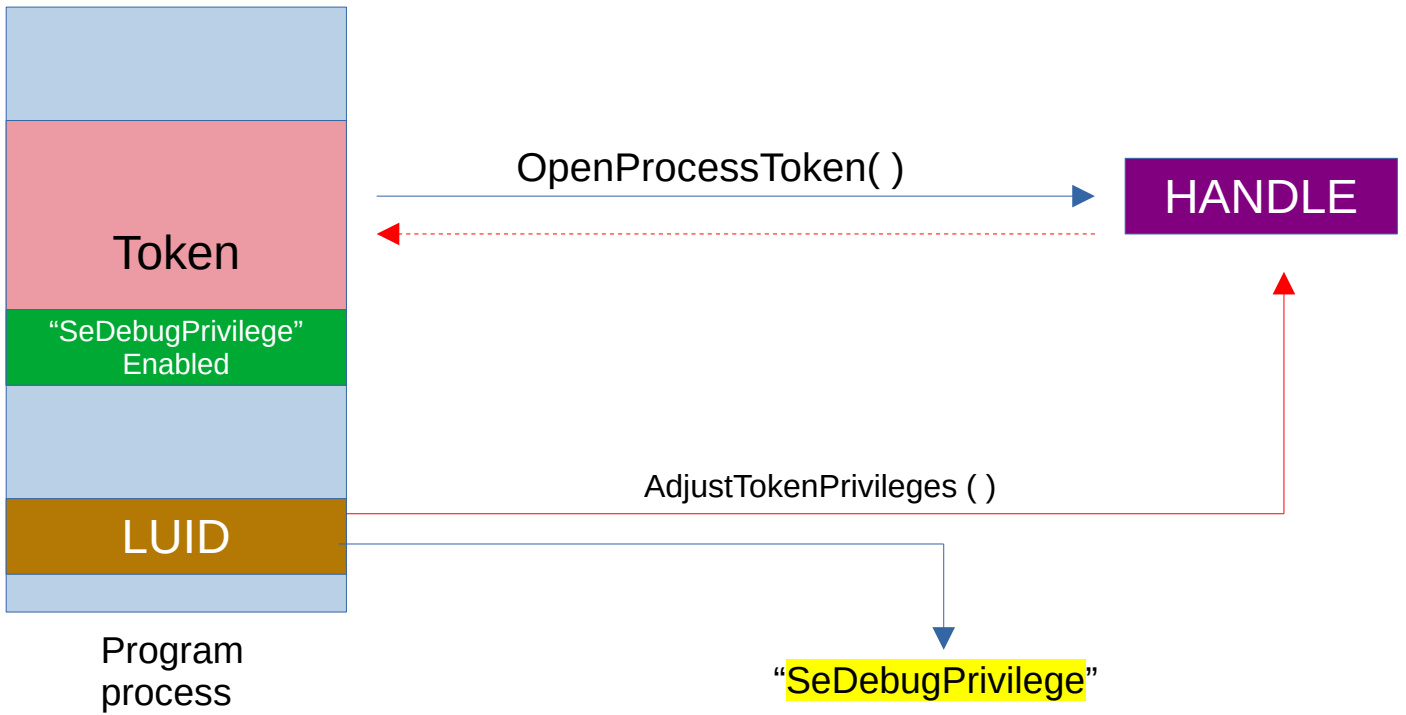
Enable “SeDebugPrivilege”

Step 2: Get LUID (id) of “SeDebugPrivilege”



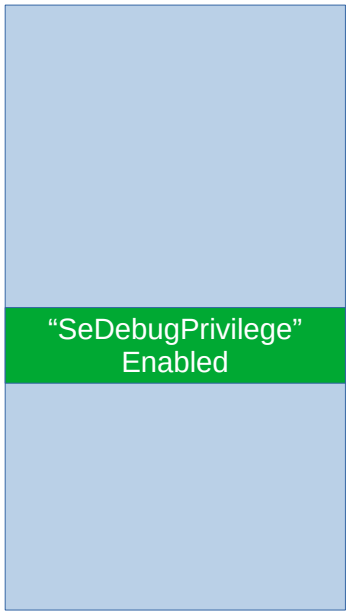
Enable “SeDebugPrivilege”

Step 3: Set “SeDebugPrivilege” to our token



Lets see the program code

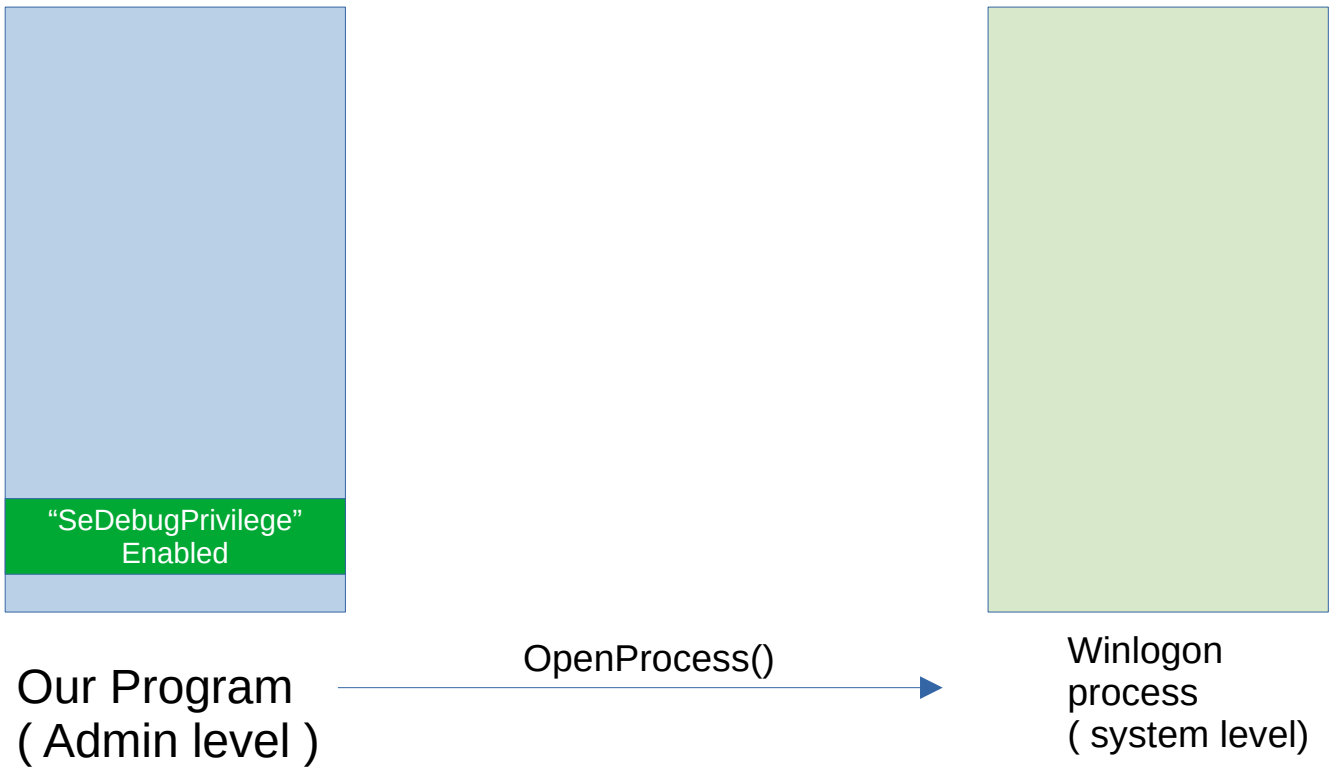
Steal the token



Our Program

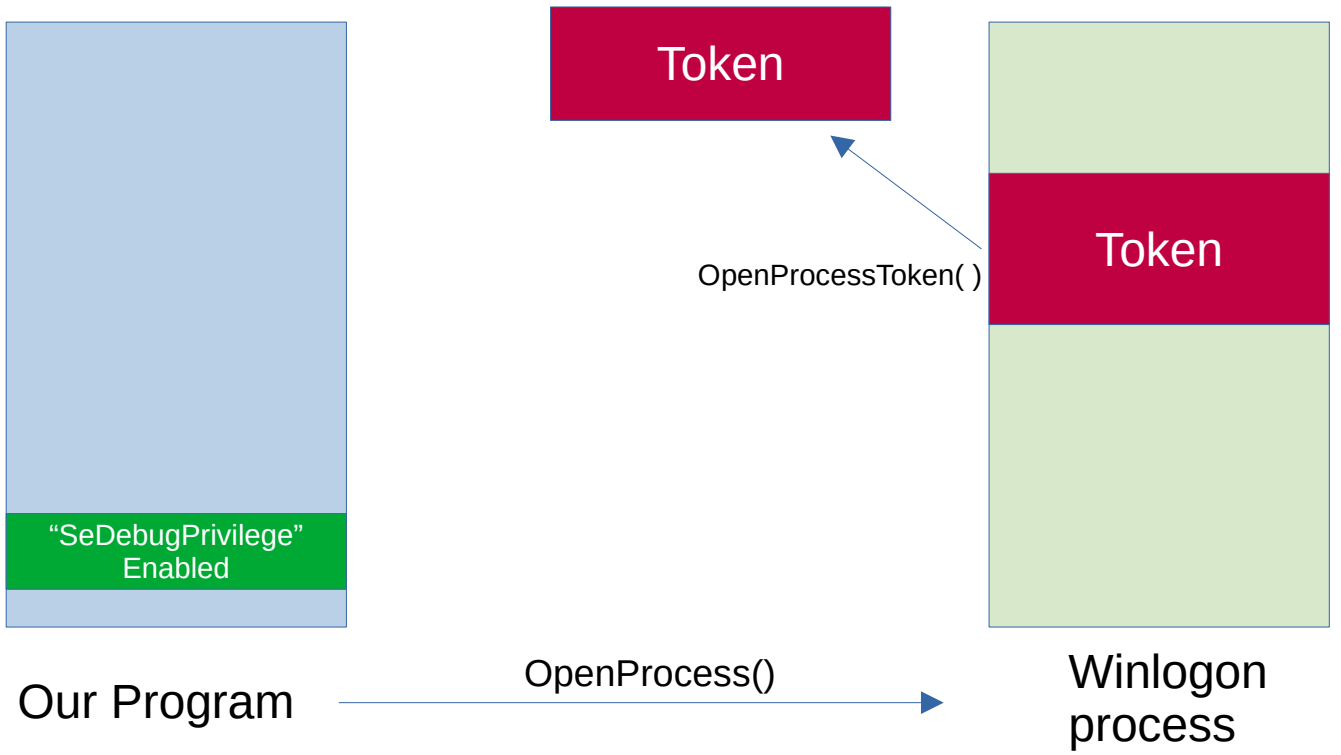
Steal the token

Step 1: Open winlogon process



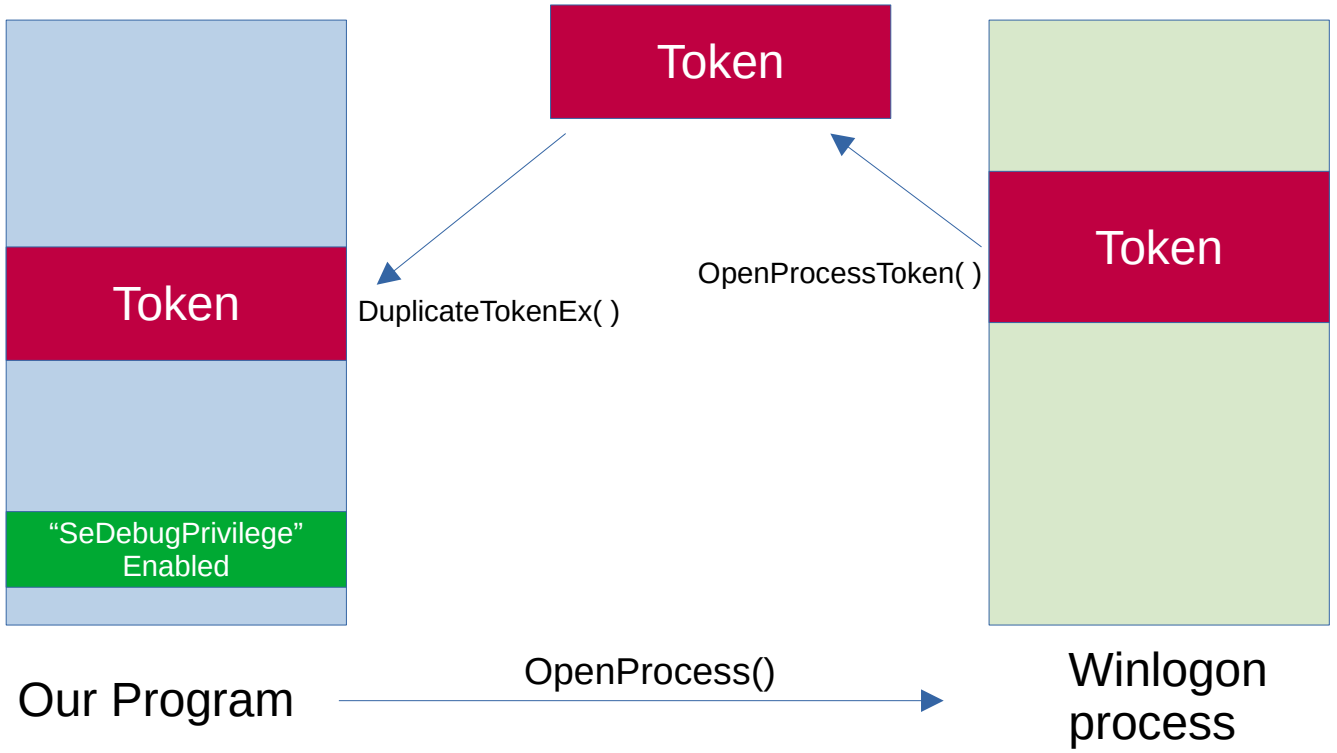
Steal the token

Step 2: Open token of winlogon process



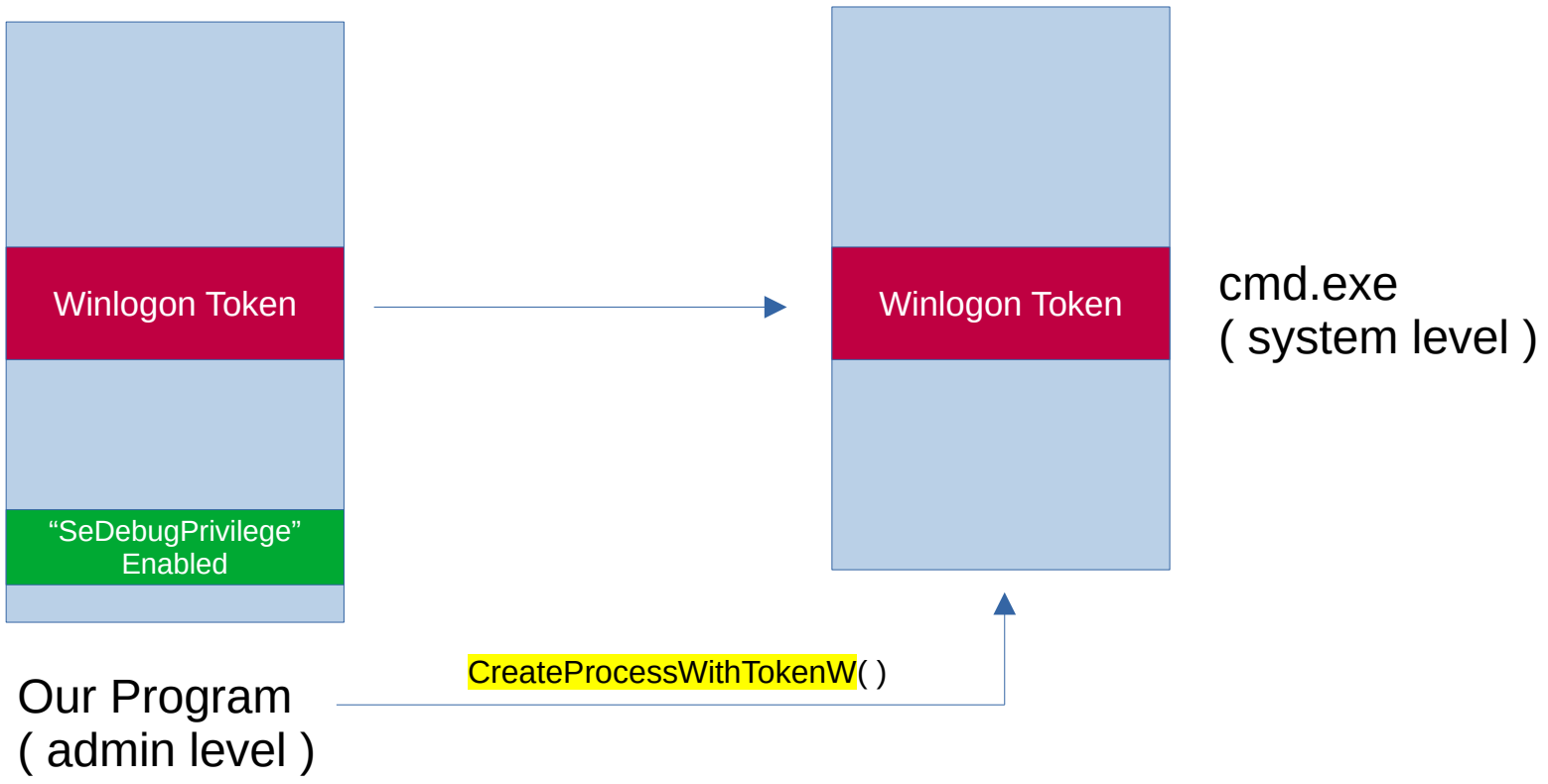
Steal the token

Step 3: Duplicate the token



Steal the token

Step 4: create a process with the duplicated token to get system level privilege



Lets see the program code